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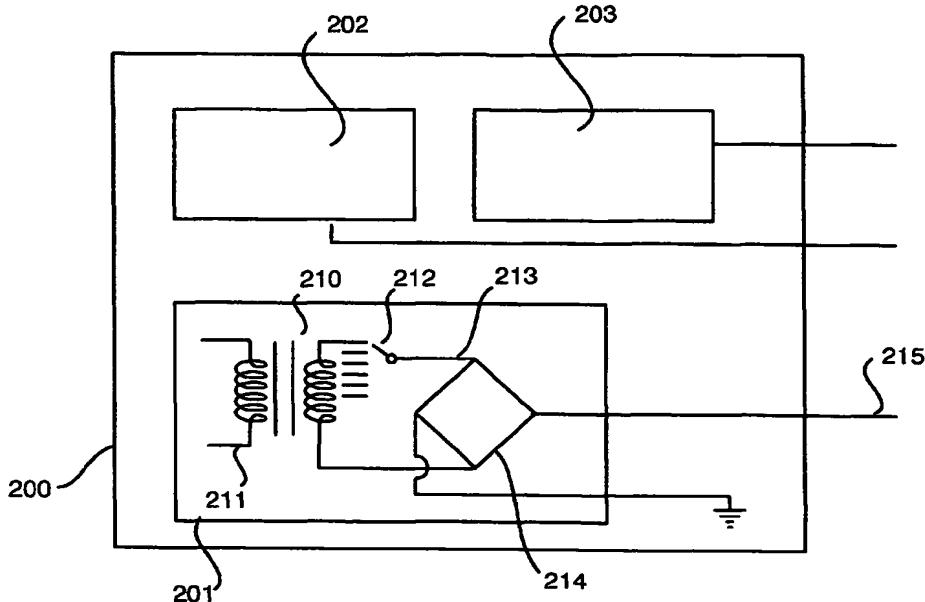
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(54) Title: ION SOURCE CONTROL SYSTEM



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(57) Abstract: A gridless ion source operates from a control system (201) that generates an anode voltage (215) comprising a mains rectified signal such that the anode voltage modulates between a first voltage above a threshold and a second voltage below the threshold. The mains rectified signal is provided by transformer (210) receiving a mains input (211). The output of the transformer (213) is rectified by a bridge rectifier (214). In preferred embodiments, the threshold is an ionization threshold such that the ion current is initiated and extinguished in every cycle.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

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